

Test Report

Test

Title : Testing of Flush Valves for WC Pan

Method : BS EN 997: 2012 + A1: 2015

Nutek ref. :

Completion :

Applicant (Information below provided by client)

Name :

Address :

Sample (Information below provided by client)

Brand :

Model :

Body marking :

Manufacturer :

Origin :

Description : Flush valve

Approved Signatory

Signature :

Name (title) :

Date :

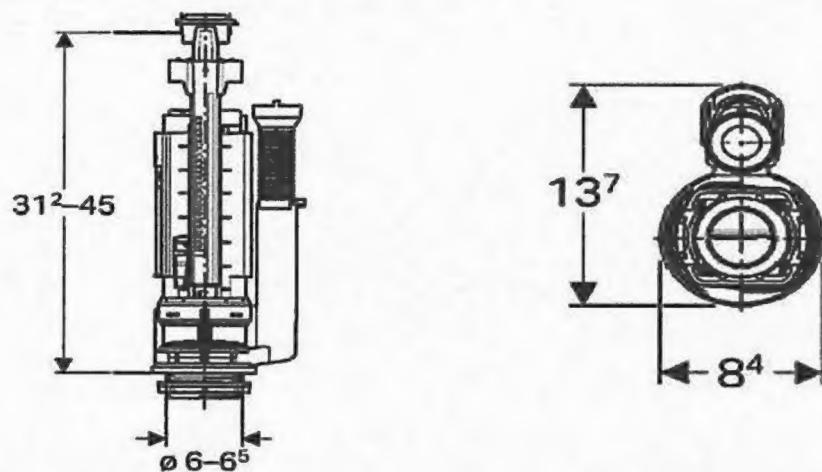
Summary

Test	Remark
1 Dimensions	C
2 Flush Volume and Rate	C
3 Physical endurance and leakage of flushing device	C

Results (apply only to samples tested)

1 Dimensions

Manufacturer Requirement



ID	Variable	Unit	Measured	Required	Remark
1	Height (minimum)	mm	315.0	312 - 450	C
	Outlet Outer Diameter		60.0	60.0 - 65.0	C
	Width		137.0	137.0	C
	Thickness		84.0	84.0	C
Overall result					C

2 Flush Volume and Rate

BS EN 997: 2012 + A1: 2015 Cl. 6.5 & 6.6

ID	Variable	Unit	Measured	Required	Remark
1	Flush Volume (Full)	l	5.7	≤ 6.0	C
	Flush Volume (Reduced)		3.3	≤ 3.8	C
2	Flush duration (Full)	s	1.7	N	N
	Flush Duration (Reduced)		0.7	N	N
3	Flush Rate (Full)	l/s	2.76	≥ 1.85	C
	Flush Rate (Reduced)		2.57	≥ 1.6	C
Overall result					C

3 Physical endurance and leakage of flushing device

BS EN 997: 2012 + A1: 2015 Cl. 6.7

ID	Variable	Unit	Measured	Required	Remark
1	Pressure	Mpa	0.15	0.15 ± 0.01	C
2	Hardness of test water	ppm	230	230 ± 20	C
Overall result					
Accumulated cycles completed		Type of test	Sign of leakage	Remark	
1		Long term test	No leakage	C	
2		Short term test	No leakage	C	
5		Short term test	No leakage	C	
10		Short term test	No leakage	C	
50		Short term test	No leakage	C	
100		Short term test	No leakage	C	
500		Short term test	No leakage	C	
1000		Short term test	No leakage	C	
10000		Short term test	No leakage	C	
20000		Short term test	No leakage	C	
30000		Short term test	No leakage	C	
40000		Short term test	No leakage	C	
50000		Short term test	No leakage	C	
60000		Short term test	No leakage	C	
70000		Short term test	No leakage	C	
80000		Short term test	No leakage	C	
90000		Short term test	No leakage	C	
100000		Short term test	No leakage	C	
110000		Short term test	No leakage	C	
120000		Short term test	No leakage	C	
130000		Short term test	No leakage	C	
140000		Short term test	No leakage	C	
150000		Short term test	No leakage	C	
160000		Short term test	No leakage	C	
170000		Short term test	No leakage	C	
180000		Short term test	No leakage	C	
190000		Short term test	No leakage	C	
200000		Long term test	No leakage	C	
ID	Variable		Measured	Required	Remark
1	Instance(s) of leakage		0	< 2	C
Overall result					

Note:

All parts of the sample showed no sign of failure, damage or permanent distortion.

Remark:

The valve is made of plastic and rubber which are suitable for sea water application.

Figure 1 - Sample

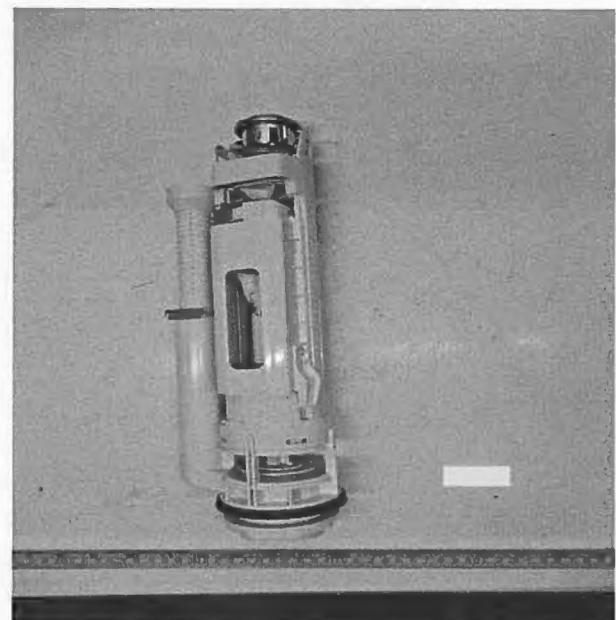
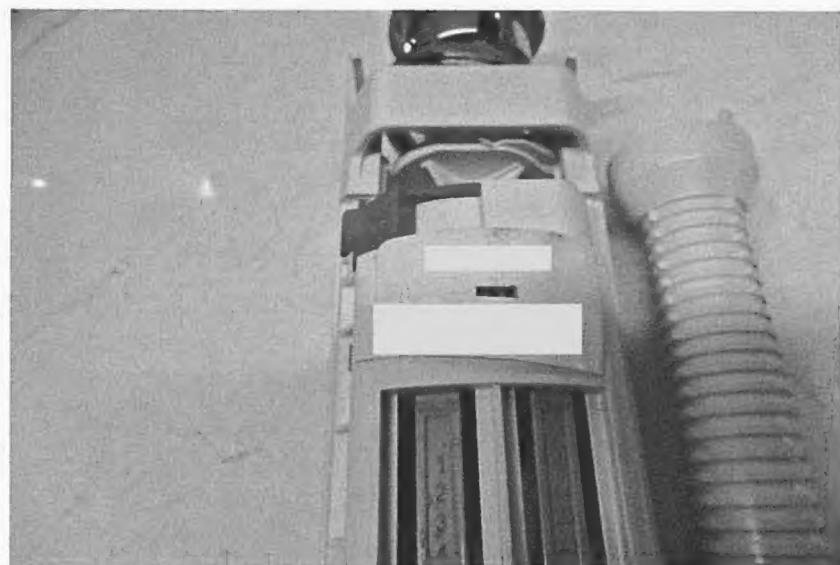


Figure 2 - Bodying marking



General Note(s)

Definitions:

C - conformance

N - no requirement

NC - non-conformance

R - remainder

Organizations:

HKAS - Hong Kong Accreditation Service

HOKLAS - Hong Kong Laboratory Accreditation Scheme

WSD - Water Supplies Department (of Hong Kong)

WHO - World Health Organization

- End of report -